

# TRIPURA GAZETTE

*Published by Authority*  
**EXTRAORDINARY ISSUE**

---

*Agartala, Monday, January 8, 2024 A. D., Pausa 18, 1945 S. E.*

---

**PART--I-- Orders and Notifications by the Government of Tripura,  
The High Court, Government Treasury etc.**

**GOVERNMENT OF TRIPURA  
DEPARTMENT OF INDUSTRIES & COMMERCE  
(INFORMATION TECHNOLOGY)  
TRIPUR, AGARTALA.**

No.F.2(81)/DIT/Estt/2022

Dated, Agartala, the 4th January, 2024

**NOTIFICATION**

In exercise of the powers conferred by proviso to Article-309 of the constitution and in supersession of the existing recruitment rules for the post mentioned herein, the Governor hereby makes the following rules regulating the method of recruitment to the post of Programmer under the Industries & Commerce (**Information Technology**) Department namely:-

**1. Short title and commencement -**

- (1) These rules may be called "Programmer" of Department of Industries & Commerce (Information Technology) Recruitment Rules, 2024.
- (2) They shall come into force on and from the date of their publication in the Official Gazette.

**2. The name of the posts shall be as specified in Column-1 of the Schedule enclosed.**

**3. Number, Classification and scale of pay:-**

The number of the said post, its classification and the scale of pay attached thereto shall be specified in **rows 2 to 4** of the Schedule enclosed at Annexure-I.

**4. Method of recruitment, age limit, qualifications, etc.:-**

The method of recruitment to the said post, age limits, qualifications and other matters relating to the said post shall be as specified in **rows 5 to 13** of the said schedule.

**5. Disqualification:- No person-**

- (a) Who has entered into or contracted a marriage with a person having spouse living; or
- (b) Who, having a spouse living has entered into or contracted a marriage with any person shall be eligible for appointment to the said post.

Provided that the State Government may, if satisfied that such marriage is permissible under the personal law applicable to such person and the other party to the marriage and that there are other grounds for so doing, exempt any person from the operation of this rule.

**6. Power to relax:-** Where the State Government is of the opinion that it is necessary or expedient to do so, it may, by order, for reasons to be recorded in the writing, and with concurrence of the GA(P&T) Department, relax any of the provisions of these rules with respect to any class or category of persons.

---

**7. Repeal:-** Does not arise.

**8. Savings:-** Nothing in these rules shall affect reservations, relaxation of age limit and other concessions required to be provided for Scheduled Castes, Scheduled Tribes, Ex-servicemen and other special categories of persons in accordance with the orders issued by the State Government from time to time in this regard.

**9.** This Notification is issued as per approval of the Council of Ministers vide communication No. F.1(16) – GA (CAB)/2015 dated, 3<sup>rd</sup> January, 2024 issued by the Government in the GA(C&C) Department, Government of Tripura

By order and in the name of the Governor

**Signed by**

**Puneet Agarwal**

**Date: 04-01-2024 19:35:22**

Principal Secretary to the  
Government of Tripura.

| Recruitment Rules (RRs) for the post of Programmer under Directorate of Information Technology, Govt. of Tripura. |  |  |   |
|---|--|--|---|
| 1   | Name of the Post   | <b>Programmer</b>  |   |
| 2   | Number of Posts  | 6 (six) plus additional post(s) as and when created.   |   |
| 3   | Classification   | <b>Group-B (Non - Gazetted).</b>   |   |
| 4   | Scale of Pay   | Pre-revised Scale of pay<br>Rs.10,230 – 34,800/- Pay Band- 3, Grade Pay Rs.4,600/-   | Corresponding revised Scale of Pay<br><b>Level-12, Cell-1</b> of Tripura State Pay Matrix, 2018 (Subject to revision by the Government from time to time) |
| 5   | Method of recruitment whether by direct recruitment or by promotion or transfer on deputation and percentage of the vacancies to be filled by various method | 100% By Promotion failing which by transfer on deputation and failing both by direct recruitment. In case of direct recruitment selection will be through TPSC as per provision of State Recruitment Policy dated, 29.10.2020. <b>Syllabus - Enclosed at Annexure-A.</b>   |   |
|   | Age limit for direct recruitment   | 18 to 40 (Forty) years. Upper age limit is relaxable by 5(five) years in case of ST/SC/PH candidates and Govt. servants.   |   |
| 7   | Educational and other qualification required for direct recruitment  | <b>Essential Qualification:</b><br><br>i. BE or B. Tech in CSE/IT from any Institution approved by UGC/AICTE or MCA/ M. Sc (Computer Science) from any Institution approved by UGC/AICTE.<br>And<br>2(two) years' experience in Electronic Data Processing including Computer Programming in any Govt. department/Autonomous body under State or Central Govt./ Govt. Registered Organization.<br>ii. For direct recruitment selection will be through competitive examinations (Written and Interview) to be conducted by the TPSC.<br>iii. Interview / viva voce shall be not exceeding 15% of the total Having Permanent Resident Certificate (PRTC) is mandatory as per Notification No. F. 23(8)-GA(P&T)/2023 dated 7 <sup>th</sup> July 2023 of the GA(P&T) Department, Govt. of Tripura.<br><b>Desirable Qualification:</b><br>Having Knowledge of Bengali/Kokborok |   |
| 8   | Whether age and educational qualifications prescribed for direct recruitment will apply in case of promotion   | Age: No<br>Education qualification: No   |   |
| 9   | Whether Selection post or Non-Selection post   | Selection  |   |
| 10  | Period of probation, if any:   | 2(two) years   |   |
| 11  | In case of recruitment by  | <b>By Promotion</b> from the post of Senior Computer   |   |

|    |  |  |
|----|--|--|
|    | promotion / transfer on deputation, grade from which promotion/transfer on deputation is to be made. | Assistant (SCA) with 10(ten) years regular service in the grade, failing which by transfer on deputation from the analogous post(s) of the State Government. |
| 12 | If a DPC exists, what is its composition   | Group 'B' DPC.   |
| 13 | Circumstances in which TPSC is to be consulted while making recruitment                              | As required under the Tripura Public Service Commission (Exemption from Consultation) Regulations, 1973.   |
| 14 | Repeal   |  |

Signed by

Puneet Agarwal

Date: 04-01-2024 19:31:44  
Principal Secretary,  
to the Government of Tripura

**ANNEXURE - A**

**SYLLABUS & SELECTION PROCEDURE**

SCHEME OF EXAMINATION FOR RECRUITMENT ( DIRECT) TO THE POST OF **PROGRAMMER** OF THE DIRECTORATE OF INFORMATION TECHNOLOGY UNDER DEPARTMENT OF INDUSTRIES & COMMERCE, GOVT. OF TRIPURA.

|   |                  |  |   |
|---|------------------|--|---|
| 1 | Name of the Post | <b>Programmer</b>  |   |
| 3 | Classification   | <b>Group-B (Non - Gazetted).</b>   |   |
| 4 | Scale of Pay     | Pre-revised Scale of pay<br>Rs.10,230 – 34,800/-<br>Pay Band-3, Grade Pay Rs.4,600/- | Corresponding revised Scale of Pay<br><b>Level-12, Cell-1</b> of Tripura State Pay Matrix, 2018 (Subject to revision by the Government from time to time) |

The Selection process consist of 2 (two) Successive stage

1. Written Examination
2. Interview/Personality Test

| Sl. No | Written Exam                               |   | Marks     | Duration              |
|--------|--|---|-----------|-----------------------|
| 1.     | General Ability Test Paper – I<br>MCQ      | English   | 15        | 180 Minutes (3 hours) |
|        |  | General Mental Ability & Logical reasoning        | 15        |                       |
|        |  | Gk & Current Affairs                              | 20        |                       |
|        |  | <b>Total</b>                                      | <b>50</b> |                       |
|        | Job Oriented Subject<br>Technical Paper-II | Job Oriented Subjects<br>Technical Paper-I<br>MCQ | 120       |                       |
| 6.     | <b>Viva/Interview</b>                      |   | 30        |                       |
| 7.     | <b>Grand Total</b>                         |   | 200       |                       |

**Details of the Syllabus:-**

| Sl. No. | Subjects                   | Syllabus                                   |  | Marks |
|---------|----------------------------|--|--|-------|
| 1.      | General Ability Test Paper | English                                    | English Composition will cover Synonyms, Antonyms, use of common Phrase & Idioms., use of appropriate Prepositions and Articles, Comprehension, Ordering of words in a sentence, Ordering of sentences, spotting of errors, use of appropriate and qualifying words.<br><b>(OMR based MCQ Type - 15 Questions one mark each)</b> | 15    |
|         |                            | General Mental Ability & Logical reasoning | Logical Reasoning, Analytical Reasoning Capabilities, Quantitative and Qualitative abilities, General Aptitude<br><b>(OMR based MCQ Type - 15 Questions one mark each)</b>   | 15    |

|                                       |  |   |   |                         |
|---------------------------------------|--|---|---|-------------------------|
|                                       |  | General Knowledge & Current Affairs     | <p>2(81)/DIT/Estt/2023</p> <p>(i) General Knowledge with special reference to Tripura and North Eastern States</p> <p>(ii) Elementary knowledge of Indian History and Indian Geography.</p> <p>(ii) Matter of common experience and current events and problems with special reference to Tripura, India and world.</p> <p><b>(OMR based MCQ Type &amp; 20 Questions one mark each)</b></p>   | 20                      |
| <b>General Ability Test Paper - I</b> |  |   |   | <b>Total Marks = 50</b> |
| 2.                                    |  | Job Oriented Subject Technical Paper-II | <p><b>Engineering Mathematics</b></p> <p><b>Section 1: Probability and Statistics:</b> Random variables. Uniform, normal, exponential, Poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.</p> <p><b>Computer Science and Information Technology</b></p> <p><b>Section 2: Digital Logic</b></p> <p>Boolean algebra, Combinational and sequential circuits, Minimization, Number representations and computer arithmetic (fixed and floating point).</p> <p><b>Section 3: Computer Organization and Architecture</b></p> <p>Machine instructions and addressing modes, ALU, data path and control unit. Instruction pipelining, pipeline hazards. Memory hierarchy: cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).</p> <p><b>Section 4: Data Structures and Programming</b></p> <p>Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs. Programming in C, C++, Java, Recursion.</p> <p><b>Section 5: Algorithms</b></p> <p>Searching, sorting, hashing. Asymptotic worst case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide and conquer. Graph traversals, minimum spanning trees, shortest paths</p> <p><b>Section 6: Compiler Design</b></p> <p>Lexical analysis, parsing, syntax-directed translation. Runtime environments. Intermediate code generation. Local optimisation, Data flow analyses: constant propagation, liveness analysis, common subexpression elimination.</p> <p><b>Section 7: Operating System</b></p> <p>System calls, processes, threads, inter process communication, concurrency and synchronization. Deadlock. CPU and I/O scheduling. Memory management and virtual memory. File systems.</p> | 120 Marks               |

|  |  |  |  |
|--|--|--|--|
|  |  | <p style="text-align: center;">2(81)/DIT/Estt/2023</p> <p><b>Section 8: Databases</b><br/>ER- model. Relational model: relational algebra, tuple calculus, SQL. Integrity constraints, normal forms. File organization, indexing (e.g., B and B+ trees). Transactions and concurrency control.</p> <p><b>Section 9: Information Systems and Software Engineering:</b><br/>Information gathering, requirement and feasibility analysis, data flow diagrams, process specifications, input/output design, process life cycle, planning and managing the project, design, coding, testing, Implementation, maintenance.</p> <p><b>Section 10: Computer Networks</b><br/>Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet, circuit and virtual circuit-switching; Data link layer: framing, error detection, Medium Access Control, Ethernet bridging; Routing protocols: shortest path, flooding, distance vector and link state routing; Fragmentation and IP addressing, IPv4, CIDR notation, Basics of IP support protocols (ARP, DHCP, ICMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UDP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email.</p> <p><b>Section 11: Web Technologies:</b> HTML5, CSS3, XML, basic concept of client-server computing, web server, proxy server, web application development, MVC Architecture, web services, frontend technologies.</p> <p><b>Section 12: Cyber Security and Emerging Technologies:</b> Secure programming techniques, OWASP top 10 vulnerabilities, concepts on IoT, Block chain, AI.</p> <p><b>Section 13: Cloud Technology:-</b><br/>Cloud Computing, Compute, Network, Storage Management Technologies, Edge Computing.</p> <p><b>(OMR based MCQ Type &amp; 120 Questions one mark each)</b></p> |  |
|--|--|--|--|

- i. Question paper for written examination will be of 170 marks (170 MCQ). Question will be MCQ type carrying 1(one) mark each.
- ii. There will be negative marking of 0.25 mark for every wrong answer.
- iii. Minimum qualification marks in MCQ test should be as per standing norms of TPSC.
- iv. Accordingly, merit list of qualified candidates may be prepared considering 100 points roster as per the standing norms of Government of Tripura.
- v. Each question will have 4(four) distracters. Some of the questions may have “None of these” as one of the distracters if felt necessary.
- vi. Candidates must appear before the Selection Committee for interview/personality test.
- vii. Final merit list will be prepared by adding both marks obtained in the written test followed by interview.
- viii. Out of 30 marks allocated for interview, some marks to be allocated for Desirable Qualification as per Memorandum vide No.F.20(1)/GA(P&T)/2018 dated,02/010/2021 issued by the Govt. of Tripura.

Signed by  
Puneet Agarwal  
Date: 04-01-2024 19:36:15  
(Puneet Agarwal),  
Principal Secretary, IT,  
Govt. of Tripura